SCOPUS

PRODUCCIÓN CIENTÍFICA DE LA EPS

RANKING SEGUNDO SEMESTRE 2025

ESCUELA POLITÉCNICA SUPERIOR

INDICE

A través de la producción científica indexada en SCOPUS mostramos algunas gráficas sobre el alcance de la investigación en la Escuela Politécnica Superior de la Universidad de Sevilla. Téngase en cuenta que la información relativa a un año (producción y citas) se va consolidando a finales del año siguiente.

Para identificar correctamente la producción de la EPS en las bases de datos, es fundamental que los autores de la EPS firmen sus publicaciones con la afiliación institucional, cumpliendo con la normativa vigente.

FUENTES: SCOPUS **|** SCIVAL
EXPORT DATE SCOPUS: 02 enero 2026
EXPORT DATE SCIVAL: 13 enero 2026

1. INVESTIGACIÓN EPS EN CIFRAS

PUB EPS EN CIFRAS

PUB EPS EN CIFRAS

PUB EPS EN CIFRAS

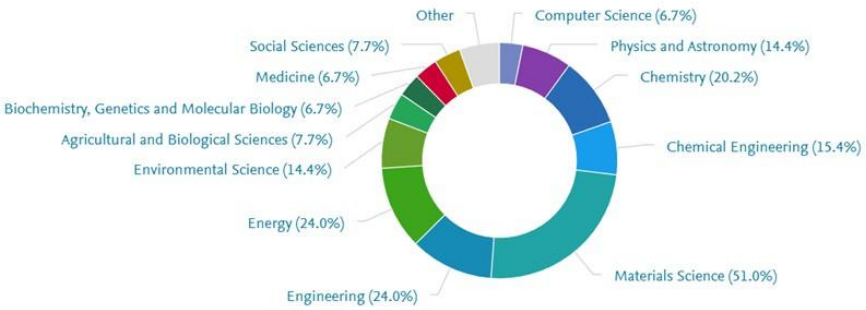
TOP 5 PUBLICACIONES EPS

Impacto normalizado (Field-Weighted Citation Impact FWCI)
Información extraída de SCOPUS (SCIVAL)

Publicación	Citas	FWCI
Detailed Assessment of Hardware Implementations, Attacks and Countermeasures for the Ascon Authenticated Cipher Martin-González, M., Tena Sánchez, E., Potestad-Ordoñez, F.E., Acosta, A.J. (2025) *Electronics Letters*, 61(1). View in Scopus	1	11,1
Optimization of Processing Conditions for Rice Bran-based Bioplastics Through Extrusion and Injection Molding Alonso González, M., Félix, M., Romero, A, Sergi, C. , Bavasso, I., Sarasini, I. (2025) Journal of Polymers and the Environment, 33(1), pp 512-527 View in Scopus	7	4,05
Evolving epidemiology of HCC in Spain Sala, M., Pascual, S., Rota Roca, M.R., and 67 more (2025) JHEP Reports, 7(5) View in Scopus	4	3,83
Flash Joule Heating-Boro/Carbothermal Reduction (FJH-BCTR): An approach for the instantaneous synthesis of transition metal diborides. Taibi, A., Gil-González, E., Sánchez-Jiménez, P.E., Perejón, A., Pérez-Maqueda, L.A. (2025) Ceramics International, 51(5), pp. 5483-5493 View in Scopus	8	3,26
Green Assessment of Analytical Procedures for the Determination of Pharmaceuticals in Sewage Sludge and Soil. Mejías, C., Arenas, M., Martín, J., Santos, J.L., Aparicio, I., Alonso, E. (2025) *Critical Reviews in Analytical Chemistry*, *55*(2), pp. 278–291 View in Scopus	19	3,22

PUB EPS EN CIFRAS

PUBLICACIONES POR MATERIAS



Gráfica extraída de SCOPUS (SCIVAL)

El tamaño del segmento representa la participación relativa de publicaciones por área temática. Tenga en cuenta que una publicación se puede asignar a múltiples áreas temáticas

PUB EPS EN CIFRAS

50 PALABRAS CLAVE PRINCIPALES POR RELEVANCIA

Gráfica extraída de SCOPUS (SCIVAL)

PUB EPS EN CIFRAS

COLABORACIÓN NACIONAL E INTERNACIONAL

Gráfica extraída de SCOPUS (SCIVAL)

Metric	Publication share	Scholarly Output
International collaboration	43.3%	45
Only national collaboration	22.1%	23
Only institutional collaboration	33.7%	35
Single authorship (no collaboration)	1.0%	1

PUB EPS EN CIFRAS

ARTÍCULOS POR PAÍSES Extraído de SCOPUS (SCIVAL)

La ubicación de los elementos en el mapa representa el origen de la publicación

2. PUBLICACIONES 2º SEMESTRE 2025

EXPORT DATE: 2 Jan 2026
106 doc.

1. Agote-Garrido, A., Martín-Gómez, A.M., Lama-Ruiz, J.R.(2025)Emerging Paradigms of Sociotechnical Systems for Industry X.0. *Springer Proceedings in Materials*, 85, pp. 467-477. DOI: 10.1007/978-3-031-99987-1_47

2. Agote Garrido, A., Martín Gómez, A.M., Lama Ruiz, J.R.amón (2025) Resilient ergonomic management in engineering companies: principles, models and practical applications. *Proceedings from the International Congress on Project Management and Engineering* (2695-5067). DOI: 10.61547/2508013

3. Aguilar-Planet, T., Picardo, A., Fernández-Rodríguez, J.-F., Martín-Mariscal, A., Peralta, E. (2025) New Perspectives in S-LCA: Development of a Model to Assess Social Impacts in the "Children" Category. *Springer Proceedings in Materials*, 85, pp. 154-160. DOI: 10.1007/978-3-031-99987-1_16

4. Ainin, F.N., Azaman, M.D., Ferreira, L.M., Coelho, C.A.C.P., Abdul Majid, M.S., Ridzuan, M.J.M.(2025)Influence of Water Absorption on the Impact Response and Failure Mechanisms of 3D-Printed PLA-Based Honeycomb Sandwich Composite Structures.*Polymer Composites.* DOI: 10.1002/pc.70264

5. Aissa, A., Belghit, M., Barani, D., Benaissa, Y., Laouini, S., Bouafia, A., Lanez, T., Abdullah, M., Al-Lohedan, H., Abdullah, J. (2025) Integrated Evaluation on the Anti-Corrosion Potential of XC52 Alloy Mild Steel in Acidic Conditions Implying Schiff Base and Its Copper Complex. *Applied Organometallic Chemistry*, 39 (7), art. no. e70243. DOI: 10.1002/aoc.70243

6. Alarcón, A.C., Gallardo, J.M., Jiménez-Losada, A.(2025) Weighing hierarchical power and active contribution in cooperative games with authorization structure. *OR Spectrum*, 47 (2), pp. 643-666. DOI: 10.1007/s00291-024-00779-7

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8. Alfaro-Rodríguez, M.-C., Vela, F., García-González, M.-C., Muñoz, J. (2025) Flaxseed Fiber-Structured Nanoemulgels for Salad Dressing Applications: Processing and Stability. *Gels*, 11 (9), art. no. 678. DOI: 10.3390/gels11090678

9. Alfaro-Rodríguez, M.-C., Garcia-González, M.-C., Muñoz, J. (2025) Ultrasonic Processing and Its Impact on the Rheology and Physical Stability of Flaxseed Fiber Dispersions. *Applied Sciences (Switzerland)*, 15 (14), art. no. 8107.DOI: 10.3390/app15148107

10. Alonso-González, M., Felix, M., Romero, A., Aliotta, L., Gigante, V., Sergi, C., Bavasso, I., Sarasini, F. (2025) Innovative

approaches to bioplastic development: rice bran/PLA blends via extrusion combined with injection molding and 3D printing. *Journal of Environmental Management*, 389, art. no. 126081. DOI: 10.1016/j.jenvman.2025.126081

11. Alonso-González, M., Felix, M., Romero, A., Pollet, E. (2025) Combining extrusion and hot compression molding for the development of bioplastics and nano-biocomposites based on rice bran. *Journal of Food Engineering*, 396, art. no. 112559. DOI: 10.1016/j.jfoodeng.2025.112559

12. Alonso-González, M., Felix, M., Romero, A., Sergi, C., Bavasso, I., Sarasini, F. (2025) Optimization of Processing Conditions for Rice Bran-based Bioplastics Through Extrusion and Injection Molding. *Journal of Polymers and the Environment*, 33 (1), pp. 512-527.DOI: 10.1007/s10924-024-03377-4

13. Alqarni, Z., Salmi, C., Mohammed, H.A., Al-sheikh, M.A., Medrasi, H.Y., Al-Moubaraki, A.H., Medina-Carrasco, S., Abdullah, J.A.A. (2025) Multifunctional Mn_3O_4/Fe_2O_3 Nanocomposite: A Green Approach for Enhanced Antioxidant Activity, Photocatalytic Dye Degradation, and Short-Term Fruit Shelf-Life Extension. *Journal of Inorganic and Organometallic Polymers and Materials*. DOI: 10.1007/s10904-025-03939-6

14. Alsadat-Seyedbokaei, F., Felix, M., Bengoechea, C. (2025) Zein as a basis of green plastic materials: Modifications, applications, and processing. *International Journal of Biological Macromolecules*, 331, art. no. 148287. DOI: 10.1016/j.ijbiomac.2025.148287

15. Álvarez, M. T., Peralta, E. (2025) Occupational Risk Prevention in People with Autism Spectrum Disorder: A Review of the State of the Art. Safety, 11(4), 97. DOI: 10.3390/safety11040097

16. Alvarez-Espada, J.-M., Peralta, E.(2025)Assessing Complex Risks. From Bow-Tie Analysis to Bayesian Modelling. *Springer Proceedings in Materials*, 85, pp. 478-488. DOI: 10.1007/978-3-031-99987-1_48

17. Aranda, M.T., Valverde-González, A., Reinoso, J., Paggi, M. (2025) Computational Multi-Scale and Multi-Physics Methods for the Prediction of Fracture Processes in Photovoltaic Systems. *Springer Proceedings in Materials*, 85, pp. 170-181.DOI: 10.1007/978-3-031-99987-1_18

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19. Arenas, M., Feijão, E., Duarte, I.A., Fonseca, V.F., Aparicio, I., Alonso, E., Duarte, B. (2025)Enantioselective toxicity of propranolol on marine diatoms: Assessing growth, energy metabolism and oxidative damage in Phaeodactylum tricornutum. *Marine Pollution Bulletin*, 214, art. no. 117751. DOI: 10.1016/j.marpolbul.2025.117751

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irrigation. *Comprehensive Analytical Chemistry*, 111, pp. 513-543. DOI: 10.1016/bs.coac.2024.08.011

21. Barani, D., Laouini, S.E., Bouafia, A., Mohammed, H.A., Mahboub, M.S., Abdullah, M.M.S., Laouini, A., Abdullah, J.A.A. (2025) An eco-responsible approach to the synthesis of AgFeO2 nanocomposite via Portulaca oleracea: Towards improved chlorpyrifos photocatalysis and antibacterial properties. *Environmental Progress and Sustainable Energy.* DOI: 10.1002/ep.70151

22. Barquero, M., Trujillo-Cayado, L.A., Santos, J. (2025) Dual-Particle Synergy in Bio-Based Linseed Oil Pickering Emulsions: Optimising ZnO–Silica Networks for Greener Mineral Sunscreens. *Materials*, 18 (13), art. no. 3030. DOI: 10.3390/ma18133030

23. Başak, O., Kurtuldu, F., Ilavský, J., Vitázková, M., Beltrán, A.M., Muñoz, F., Castro, Y., Michálek, M., Chromčíková, M.(2025) Influence of calcium nitrate timing on the structural and textural characteristics of mesoporous SiO2-CaO nanoparticles. *Open Ceramics*, 23, art. no. 100807. DOI: 10.1016/j.oceram.2025.100807

24. Benítez-Díaz, O., Pérez-Rodríguez, R., Zúñiga-Igarza, L.M., Peralta-Alvarez, M.E. (2025) A Framework to Support the Integration of Technical Collector Networks into the Conceptual Design of Urban Development Projects. *Springer Proceedings in Materials*, 85, pp. 75-83. DOI: 10.1007/978-3-031-99987-1_9

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26. Bustos, L.F., Vasile, F.E., Ruiz-Henestrosa, V.M.P., Carrera-Sánchez, C., Pérez, O.E.(2025) Buffalo whey proteins – Vitamin E macromolecular bioinspirated complexes. Formation and performance at air/water interface. *Colloids and Surfaces A: Physicochemical and Engineering Aspects*, 718, art. no. 136871. DOI: 10.1016/j.colsurfa.2025.136871

27. Calero, N., Trujillo-Cayado, L.A., Carrillo, F., Oliveira, S., Raymundo, A. (2025) Synergistic rheology of chia and aloe vera mucilage with Spirulina residue: Enhancing emulsion stability for sustainable food applications. *Journal of Molecular Liquids*, 437, art. no. 128306. DOI: 10.1016/j.molliq.2025.128306

28. Cañamero, F.J., Buroni, F.C., Rodríguez-Tembleque, L. (2025) Influence of the porosity and auxeticity of matrices and interfacial integrity on the performance of KNN-based piezocomposites. *European Journal of Mechanics, A/Solids*, 114, art. no. 105754. DOI: 10.1016/j.euromechsol.2025.105754

29. Cañete, R., Green, K.E., Peralta, M.E. (2025) Empowering Novice Designers to Design and Prototype Tailored Assistive Technologies for Children with Autism. SeGAH 2025 - 2025 IEEE 13th Conference on Serious Games and Applications for Health. DOI: 10.1109/SeGAH65397.2025.11168421

30. Cañete, R., Picardo, A., Trueba, P., Peralta, E. (2025) Artificial Intelligence in Assistive Robots for Children with

Autism. *Springer Proceedings in Materials*, 85, pp. 287-296. DOI: 10.1007/978-3-031-99987-1_30

31. Cardenete-Fernández, M., Castillo-Rivas, A., Durán-Barrantes, M.M., Trujillo-Cayado, L.A., Santos, J. (2025)Designing Spoonable Milk Kefir Gels: From Fermentation Optimization to Clean-Label Gel Structuring with Psyllium. *Gels*, 11 (9), art. no. 693. DOI: 10.3390/gels11090693

32. Casado-Galán, Al.,Sanchez-Solano, .S, Tena-Sanchez, E., Rojas-Muñoz, L.F., Potestad-Ordóñez, F.E., Martínez-Rodríguez,M.C., Acosta-Jiménez, A.J. (2025) Analysis of EM Side-Channel Leakage on an RO-PUF and Proposed Countermeasures. *IEEE Transactions on Dependable and Secure Computing*. DOI: 10.1109/TDSC.2025.3648516

33. Castilla, M.V.(2025) The European Influence on Qing Dynasty Architecture: Design Principles and Construction Innovations Across Cultures. *Heritage*, 8 (8), art. no. 311. DOI: 10.3390/heritage8080311

34. Chávez-Vásconez, R., Arévalo, C., Sauceda, S., Leiva, J., Oñate, A., Pérez-Soriano, E.M., Lozano, J.G., Torres, Y., Lascano, S. (2025) Material design of novel TiNbTaHfMo high-entropy alloys for biomedical implants: Exploring an industry-adaptable route via FAST/SPS. *Journal of Materials Research and Technology*, 38, pp. 5094-5115. DOI: 10.1016/j.jmrt.2025.09.004

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37. Elahi, S.A., Sofiani, F.M., Chaudhuri, S., Balbín, J.A., Larrosa, N.O., Waele, W.D. (2025) A numerical study on fatigue strength degradation due to pitting corrosion of S355 structural steel in a marine environment. *Engineering Failure Analysis*, 177, art. no. 109669. DOI: 10.1016/j.engfailanal.2025.109669

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39. Ferreira, L.M., Coelho, C.A.C.P., Reis, P.N.B.(2025) Effect of thickness-to-radius ratio on the impact response of fabric-reinforced composite shells. *Thin-Walled Structures*, 213, art. no. 113279. DOI: 10.1016/j.tws.2025.113279

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42. Francis, A., Fresia, M., Ghavidel, B., García, S., Siri, S., Bracco, S. (2025) Optimized energy and task management in sustainable warehouses with Automated Forklifts and V2G-enabled Electric Vehicles. *Sustainable Energy Technologies and Assessments*, 84, art. no. 104717. DOI: 10.1016/j.seta.2025.104717

43. García, I.G., Justo, J., Van-Dinter, A.Z., Mantič, V. (2025) Particle size effect on the strength of particle-reinforced composites. Experimental analysis and comparison with the coupled criterion [Effet de la taille des particules sur la résistance des composites renforcés par particules: analyse expérimentale et comparaison avec le critère couplé]. *Comptes Rendus - Mecanique*, 353, pp. 627-646. DOI: 10.5802/crmeca.293

44. García-Criado, N., Martín, J., Santos, J.L., Aparicio, I., Alonso, E. (2025) Matrix solid-phase dispersion, combined with online SPE-LC-MS/MS, for the determination of tetracyclines and their main transformation products in sludge and agricultural soils. *Analytica Chimica Acta*, 1379, art. no. 344749. DOI: 10.1016/j.aca.2025.344749

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54. Herrera-Garrido, M.A., Mantič, V., Leguillon, D. (2025) Application of the coupled criterion to interface crack growth in the end-notched flexure test considering friction between the crack faces. International Journal of Fracture, 249 (3), art. no. 53. DOI: 10.1007/s10704-025-00866-y

55. Herrera-Garrido, M.A., Mogilevskaya, S.G., Mantič, V. (2025 FEM Analysis of Antiplane Problems with Interacting Stiff and Ultrathin Platelets. *Springer Proceedings in Materials*, 85, pp. 489-500. DOI: 10.1007/978-3-031-99987-1_49

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57. León, B., Beltrán, A.M. (2025) Biomedical Applications Revolutionizing Medicine: The Power of Nanotechnology in Biomedical Advancements. *Springer Proceedings in Materials*, 85, pp. 525-534. DOI: 10.1007/978-3-031-99987-1_52

58. Leon-Romero, L.P., Francisco-Márquez, M., Aguilar-Fernández, M., Zamora-Polo, F., Aguirre, N. (2025) A Causal Model of Food Security. The Case of Maize. *Springer Proceedings in Materials*, 85, pp. 18-28. DOI: 10.1007/978-3-031-99987-1_3

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64. Martín-González, M., Tena-Sánchez, E., Potestad-Ordóñez, F.E., Acosta, A.J. (2025) Detailed Assessment of Hardware Implementations, Attacks and Countermeasures for the Ascon Authenticated Cipher. *Electronics Letters*, 61 (1), art. no. e70260. DOI: 10.1049/ell2.70260

65. Martín-Mariscal, A., Torres-Leal, C., Aguilar-Planet, T., Peralta, E. (2025) The Role of Virtual and Augmented Reality in Industrial Design: A Case Study of Usability Assessment. *Applied Sciences (Switzerland)*, 15 (15), art. no. 8725. DOI: 10.3390/app15158725

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